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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/809,531	03/26/2004	Mitsuru Horinoe	119054	7531
25944 759	90 06/19/2006		EXAMINER	
OLIFF & BERRIDGE, PLC		GRAINGER, QUANA MASHELL		
P.O. BOX 1992: ALEXANDRIA			ART UNIT PAPER NUMBER 2852	
			DATE MAILED: 06/19/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	: :	Application No.	Applicant(s)			
Office Action Summary		10/809,531	HORINOE ET AL.			
		Examiner	Art Unit			
		Quana M. Grainger	2852			
Period fo	The MAILING DATE of this communication app	pears on the cover sheet with the	correspondence address			
A SH WHIC - Exter after - If NO - Failu Any (ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tinuity will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status	:					
1)	Responsive to communication(s) filed on					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Dispositi	on of Claims					
4)🖂)⊠ Claim(s) <u>12-20 and 22-45</u> is/are pending in the application.					
-	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠	Claim(s) 18-20 is/are allowed.					
6)⊠	Claim(s) <u>12-16,22-29 and 31-45</u> is/are rejected.					
· —	Claim(s) <u>17 and 30</u> is/are objected to.					
8)	Claim(s) are subject to restriction and/or	r election requirement.				
Applicati	on Papers					
9)[The specification is objected to by the Examine	r.				
10)	The drawing(s) filed on is/are: a) acc	epted or b) objected to by the	Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
_	Replacement drawing sheet(s) including the correct	•	•			
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority u	inder 35 U.S.C. § 119					
-	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:)-(d) or (f).			
	1. Certified copies of the priority documents2. Certified copies of the priority documents		ion No			
	3. Copies of the certified copies of the prior	• •				
	application from the International Bureau	•	ca in this realistic stage			
* 5	see the attached detailed Office action for a list	, ,,,	ed.			
Attachmen	: Řs)					
1) 🛛 Notic	e of References Cited (PTO-892)	4) Interview Summary	/ (PTO-413)			
2) ☐ Notic 3) ⊠ Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	Paper No(s)/Mail D				
		, -				

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 2-27-2006 was considered by the examiner.

Drawings

2. The content of the drawings are approved by the examiner.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 12-13, 15, 22-23, 25-29, 31-34, and 37-45 are rejected under 35 U.S.C. 102(e) as being anticipated by Takami et al (5,384,628). The developing device (figure 2, 9) that is detachably attached to a main casing of an image forming apparatus by Takami et al. comprises a developing agent container 42 that contains a developing agent; a developing agent carrier 16 that carries the developing agent; a supply device 54 that is disposed facing the developing agent carrier and supplies the developing agent stored in the developing agent container to the developing agent carrier, the developing agent carrier and the supply device disposed below the

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developing agent container when the developing device is mounted in the main casing of the image forming apparatus; and a first wall 40, 28 that is disposed between the developing agent container and the supply device and covers an upper portion of the supply device when the developing device is mounted in the main casing of the image forming apparatus (figure 2). The first wall (40, 28) and the second wall are opposite roller 22 are shown in figure 2 and the supply device and the first wall is 0-10mm. The regulating means 24 is attached to the second wall. The first wall is between the developing agent container and the supply device. Takami et al. teaches a developing device that is detachably attached to a main casing of an image forming apparatus, comprising: a developing agent container that contains a developing agent; a developing agent carrier that carries the developing agent; a supply device that is disposed facing the developing agent carrier and supplies the developing agent stored in the developing agent container to the developing agent carrier, the developing agent carrier and the supply device disposed below the developing agent container when the developing device is mounted in the main casing of the image forming apparatus; and a first means that prevents a weight of the developing agent contained in the developing agent container from directly acting on the supply device (figure 2, 9). The agitating member 30 agitates the developer.

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Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 7. Claims 14 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takami et al. in view of Yaguchi et al (2004/0053153). Takami et al. does not teach the bulk density for the developing agent container.

Yaguchi teaches a developing device that is detachably attached to a main casing of an image forming apparatus, comprising: a developing agent container that contains a developing agent; a developing agent carrier that carries the developing agent; a supply device that is disposed facing the developing agent carrier and supplies the developing agent stored in the developing agent container to the developing agent carrier, the developing agent carrier and the supply device disposed below the developing agent container when the developing device is mounted in the main casing of the image forming apparatus; and wherein the developing agent has a packed bulk density of greater than or equal to 0.646 g/ml at an initial use [117]. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the teaching of Yaguchi et al. with the developing device of Ito et al. to obtain a toner that is environmentally safer (Yaguchi et al. [007]).

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R. Claims 16, 24, and 35 rejected under 35 U.S.C. 103(a) as being unpatentable over Takami et al. in view of Ishii et al. (6,594,462). Takami et al. does not teach that the image forming apparatus comprising a plurality of developing agent containers, developing agent carriers, supply devices, and first walls in the same number as a plurality of colors for the developing agent. The examiner takes official notice that color image forming devices are well known that use plural developer agent container such as shown in applicant cited reference Sugiura (6,339,689). Ishii et al. teaches a developing device further comprising substantially spherical particles (column 8, lines 7-13). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the teaching of use the teaching of Ishii et al. with the developing device of Takami et al. to reduce toner consumption (Ishii et al.; column 4, lines 58-62). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the teaching of use the teaching of Takami et al. with a color image forming apparatus as is known in the art.

Allowable Subject Matter

9. Claims 17 and 30 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claims 18-20 are allowed.

Contact Information

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quana M. Grainger whose telephone number is 571-272-2135. The examiner can normally be reached on 8am-6pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Gray can be reached on 571-272-2119. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Quana M Grainger Primary Examiner Art Unit 2852